

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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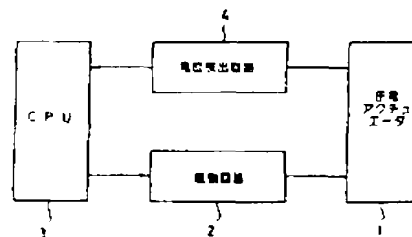
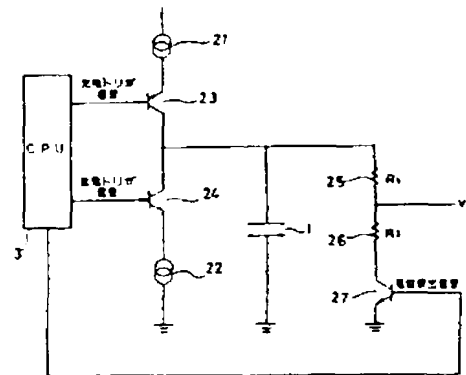
APPLICATION DATE : 03-08-89  
APPLICATION NUMBER : 01201797

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INVENTOR : INOUE SHOJI;

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TITLE : DRIVER OF PIEZOELECTRIC ACTUATOR



ABSTRACT : PURPOSE: To accurately control the output displacement of a piezoelectric actuator accurately by charging the piezoelectric actuator with a constant current or discharging the actuator and by increasing and decreasing the potential of the actuator through charge or discharge to a target potential corresponding to a desired output displacement.

CONSTITUTION: An apparatus is equipped with a drive circuit 2 for charging a piezoelectric actuator 1 with a constant current or discharging the actuator, and the output of a central control unit (CPU) 3 for controlling the output of the drive circuit 2 via current control signal for controlling a charge or discharge time is connected with the input of the drive circuit 2. The apparatus is further equipped with a potential detection circuit 4 for detecting the potential of the piezoelectric actuator 1. Then, the potential of the piezoelectric actuator 1 is increased or decreased by charging the actuator with a constant current or discharging it to a target potential corresponding to a desired output displacement. In this manner, the variation of an output displacement due to the leakage of electric charge can be compensated and the accurate control of the piezoelectric actuator 1 is made possible.

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